DOCKET NO.: UPN-5240(Q3395) PATENT

Application No.: 10/589,811

Office Action Dated: October 28, 2009

This listing of claims will replace all prior versions, and listings, of claims in the application. Listing of Claims:

1. (Currently amended) A method for detecting molecules expressing a selected epitope in a sample comprising:

- (a) immobilizing a molecule expressing a selected epitope in a sample to a solid support;
- (b) contacting the solid support with a molecule that specifically binds to the selected epitope, streptavidin and a biotinylated oligonucleotide, wherein the molecule that specifically binds to the selected epitope is a biotinylated monoclonal antibody, a biotinylated FAb, a biotinylated F(Ab)2, a biotinylated humanized or chimeric antibody with or without a human Fc, a biotinylated single chain Fv, a biotinylated constrained epitope specific CDR, a biotinylated CDR mimetic, a biotinylated engineered CDR structure, a monoclonal antibody that comprises a universal epitope, a FAb that comprises a universal epitope, a F(Ab)₂ that comprises a universal epitope, humanized or chimeric antibody that comprises a universal epitope, a single chain Fv that comprises a universal epitope, a constrained epitope specific CDR that comprises a universal epitope, a CDR mimetic that comprises a universal epitope, or a engineered CDR structure that comprises a universal epitope, wherein if the molecule that specifically binds to the selected epitope is a monoclonal antibody that comprises a universal epitope, a FAb that comprises a universal epitope, a F(Ab)2 that comprises a universal epitope, humanized or chimeric antibody that comprises a universal epitope, a single chain Fv that comprises a universal epitope, a constrained epitope specific CDR that comprises a universal epitope, a CDR mimetic that comprises a universal epitope, or a biotinylated engineered CDR structure that comprises a universal epitope, the solid support is additionally contacted with a biotinylated molecule that binds to the universal epitope, wherein the biotinylated molecule that binds to the universal epitope is a biotinylated monoclonal antibody, a biotinylated FAb, a biotinylated F(Ab)₂, a biotinylated humanized or chimeric antibody preferably with or without a human Fc a biotinylated single chain Fv, a biotinylated constrained epitope specific CDR, a biotinylated CDR mimetic, or a biotinylated engineered CDR structure,

whereby the molecule that specifically binds to the selected epitope binds to the selected epitope of the molecule immobilized to the solid support and, if it is biotinylated, to

PATENT

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the streptavidin which binds to the biotinylated oligonucleotide that comprises an RNA polymerase promoter, and if it comprises a universal epitope, to the biotinylated molecule that binds to the universal epitope which binds to the streptavidin which binds to the biotinylated oligonucleotide that comprises an RNA polymerase promoter;

- (c) amplifying the oligonucleotide by RNA amplification to produce an RNA amplification product that is not labeled with a radioactive label or a fluorescent label;
- (d) contacting the <u>said</u> amplified oligonucleotide with a fluorescent dye which stains the RNA amplification product; and
- (e) detecting fluorescence emitted from the stained RNA amplification product that is indicative allows linear quantification of the molecule comprising the selected epitope being present in the sample.
- 2. (Original) The method of claim 1 wherein the molecule comprising the selected epitope present in the sample is quantified by measuring fluorescence emitted from the stained RNA amplification product whereby the amount of fluorescence emitted is correlated to the amount of the molecule comprising the selected epitope present in the sample.
- 3. (Original) The method of claim 1 wherein the oligonucleotide is double stranded DNA.
- 4.-7. (Canceled)
- 8. (Currently amended) The method of elaims claim 1 wherein the solid support is a chip, bead or surface in a well of a multi-well plate.
- 9. (Currently amended) The method of <u>elaims claim</u> 1 wherein the solid support comprises an immobilized molecule that binds to the molecule that expresses the selected epitope.
- 10.-27. (Canceled)
- 28. (New) The method of claim 1 wherein the fluorescent dye is an unsymmetrical cyanine dye.